IN THE CLAIMS:

Claim 31 was previously cancelled. Claims 1, 2, 4-9, 15, 16, 18-32, 34, 40, 43 and 44 have been amended herein. All of the pending claims are presented below. This listing of claims will replace all prior versions and listings of claims in the application. Please enter these claims as amended.

Listing of Claims:

- (Currently amended) A melt-pourable explosive composition comprising:
 weight percent to 70 weight percent of <u>at least</u> one <u>or more</u> organic <u>binders</u> <u>binder</u> selected from the group consisting of mononitro aromatics and dinitro aromatics, the <u>at least</u> one <u>or more</u> organic <u>binders</u> <u>binder</u> collectively exhibiting a total energy of detonation lower than trinitrotoluene and collectively having a total melting point in a range of 80°C to 115°C; and
- 30 weight percent to 70 weight percent of <u>at least</u> one-or more oxidizers, oxidizer, wherein the melt-pourable explosive composition is pourable at a temperature in a range of 80°C to 115°C, and
- wherein at least 95 weight percent of the melt-pourable explosive composition comprises a combination of the <u>at least</u> one or more organic binders binder and the <u>at least one or more oxidizers</u>. oxidizer.
- 2. (Currently amended) The melt-pourable explosive composition of claim 1, wherein the <u>at least</u> one or more organic binders comprise <u>binder comprises</u> at least one mononitro aromatic compound and at least one dinitro aromatic compound.
- 3. (Previously presented) The melt-pourable explosive composition of claim 1, wherein the mononitro aromatics each comprise one nitrocarbon moiety and wherein the dinitro aromatics each comprise two nitrocarbon moieties.

- 4. (Currently amended) The melt-pourable explosive composition of claim 1, wherein the <u>at least</u> one <u>or more-organic-binders comprise binder comprises</u> at least one member selected from the group consisting of mononitro-substituted and dinitro-substituted phenyl alkyl ethers.
- 5. (Currently amended) The melt-pourable explosive composition of claim 1, wherein the <u>at least one</u> one <u>or more binders comprise</u> <u>organic binder comprises</u> at least one member selected from the group consisting of 2,4-dinitroanisole, 2,4-dinitrophenetole, and 4-methoxy-2-nitrophenol.
- 6. (Currently amended) The melt-pourable explosive composition of claim 1, wherein the <u>at least one-or more binders comprise organic binder comprises</u> 2,4-dinitroanisole.
- 7. (Currently amended) The melt-pourable explosive composition of claim 1, wherein the <u>at least one or more binders comprise organic binder comprises an</u> N-alkyl-nitroaniline processing aid.
- 8. (Currently amended) The The melt-pourable explosive composition of claim 1, wherein the <u>at least one or more binders comprise organic binder comprises</u>

 N-methyl-nitroaniline as a processing aid.
- 9. (Currently amended) The melt-pourable explosive composition of claim 1, wherein the <u>at least one or more binders comprise organic binder comprises</u> at least one processing aid selected from the group consisting of N-alkyl nitroaniline and N-aryl-nitroaniline, the at least one processing aid accounting for not more than 1 weight percent of the melt-pourable explosive composition.

- 10. (Previously presented) The melt-pourable explosive composition of claim 1, wherein the melt-pourable explosive composition undergoes an onset of thermal decomposition at a temperature that is at least 55.5°C higher than the temperature at which the melt-pourable explosive composition becomes pourable.
- 11. (Previously presented) The melt-pourable explosive composition of claim 1, wherein the melt-pourable explosive composition exhibits a card gap value of less than 121.
- 12. (Previously presented) The melt-pourable explosive composition of claim 1, wherein the melt-pourable explosive composition exhibits a card gap value of less than 101.
- 13. (Previously presented) The melt-pourable explosive composition of claim 1, wherein the melt-pourable explosive composition exhibits a dent depth in a range of 0.754 cm to 0.922 cm.
- 14. (Previously presented) The melt-pourable explosive composition of claim 1, wherein the melt-pourable explosive composition has a total energy of detonation of 7.1 kJ/cc to 8.7 kJ/cc.

- 15. (Currently amended) A melt-pourable explosive composition comprising:

 30 weight percent to 70 weight percent of <u>at least</u> one <u>or more organic-binders binder selected</u> from the group consisting of mononitro aromatics and dinitro aromatics, the <u>at least one or more organic-binders binder collectively exhibiting a total energy detonation lower than trinitrotoluene and collectively having a total melting point in a range of 80°C to 115°C; and</u>
- 30 weight percent to 70 weight percent of <u>at least</u> one or more-inorganic-oxidizers, oxidizer, wherein the melt-pourable explosive composition is pourable at a temperature in a range of 80°C to 115°C, and
- wherein at least 95 weight percent of the melt-pourable explosive composition comprises a combination of the <u>at least</u> one or <u>more</u> organic <u>binders</u> and the <u>at least</u> one or <u>more</u> inorganic <u>oxidizers</u>. oxidizer.
- 16. (Currently amended) The melt-pourable explosive composition of claim 15, wherein the <u>at least</u> one or more-organic <u>binders comprise</u> <u>binder comprises</u> at least one mononitro aromatic compound and at least one dinitro aromatic compound.
- 17. (Previously presented) The melt-pourable explosive composition of claim 15, wherein the mononitro aromatics each comprise one nitrocarbon moiety and wherein the dinitro aromatics each comprise two nitrocarbon moieties.
- 18. (Currently amended) The melt-pourable explosive composition of claim 15, wherein the <u>at least</u> one <u>or more organic-binders comprise</u> <u>binder comprises</u> at least one member selected from the group consisting of nitrotoluenes, dinitrotoluenes, and dinitronaphthalenes.

- 19. (Currently amended) The melt-pourable explosive composition of claim 15, wherein the <u>at least</u> one or <u>more-organic-compounds comprise-binder comprises</u> at least one member selected from the group consisting of nitrophenols, dinitrophenols, mononitroanilines, and dinitroanilines.
- 20. (Currently amended) The melt-pourable explosive composition of claim 15, wherein the <u>at least</u> one or more organic <u>binders comprise</u> <u>binder comprises</u> at least one member selected from the group consisting of mononitro-substituted and dinitro-substituted phenyl alkyl ethers.
- 21. (Currently amended) The melt-pourable explosive composition of claim 15, wherein the <u>at least one or more binders comprise-organic binder comprises</u> at least one member selected from the group consisting of 2,4-dinitroanisole, 2,4-dinitrophenetole, and 4-methoxy-2-nitrophenol.
- 22. (Currently amended) The melt-pourable explosive composition of claim 15, wherein the <u>at least one or more binders comprise</u> organic binder comprises 2,4-dinitroanisole.
- 23. (Currently amended) The melt-pourable explosive composition of claim 15, wherein the <u>at least</u> one or more-organic-binders comprise <u>binder comprises</u> at least one heterocyclic compound.
- 24. (Currently amended) The melt-pourable explosive composition of claim 15, wherein the <u>at least one-or more binders comprise organic binder comprises an</u>
 N-alkyl-nitroaniline processing aid.

25. (Currently amended) The melt-pourable explosive composition of claim 15, wherein the <u>at least one-or more binders comprise-organic binder comprises</u>

N-methyl-nitroaniline as a processing aid.

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- 26. (Currently amended) The melt-pourable explosive composition of claim 15, wherein the <u>at least one or more binders comprise organic binder comprises</u> an N-aryl-nitroaniline processing aid.
- 27. (Currently amended) The melt-pourable explosive composition of claim 15, wherein the <u>at least one or more binders comprise organic binder comprises</u> at least one processing aid selected from the group consisting of N-alkyl nitroaniline and N-aryl-nitroaniline, the at least one processing aid accounting for not more than 1 weight percent of the melt-pourable explosive composition.
- 28. (Currently amended) The melt-pourable explosive composition of claim 15, wherein the <u>at least</u> one <u>or more inorganic oxidizers comprise oxidizer comprises</u> at least one member selected from the group consisting of perchlorates and nitrates.
- 29. (Currently amended) The melt-pourable explosive composition of claim 15, wherein the <u>at least</u> one <u>or more-inorganic-oxidizers comprise-oxidizer comprises</u> at least one perchlorate selected from the group consisting of ammonium perchlorate, sodium perchlorate, and potassium perchlorate.
- 30. (Currently amended) The melt-pourable explosive composition of claim 15, wherein the <u>at least</u> one <u>or more-inorganic-oxidizers comprise-oxidizer comprises</u> at least one nitrate selected from the group consisting of ammonium nitrate, sodium nitrate, strontium nitrate, and potassium nitrate.

- 31. (Currently amended) The melt-pourable explosive composition of claim 15, wherein the <u>at least</u> one or more inorganic oxidizers have oxidizer has an average particle size of 3 microns to 60 microns.
- 32. (Currently amended) The melt-pourable explosive composition of claim 15, wherein the <u>at least</u> one or more inorganic oxidizers have oxidizer has an average particle size of 5 microns to 20 microns.

33. (Cancelled)

- 34. (Currently amended) The melt-pourable explosive composition of claim 15, wherein at least 99 weight percent of the melt-pourable explosive composition comprises a combination of the <u>at least</u> one <u>or more</u> organic-binders and the <u>at least</u> one <u>or more</u> inorganic-oxidizers, oxidizer.
- 35. (Previously presented) The melt-pourable explosive composition of claim 15, wherein the melt-pourable explosive composition undergoes an onset of thermal decomposition at a temperature that is at least 55.5°C higher than the temperature at which the melt-pourable explosive composition becomes pourable.
- 36. (Previously presented) The melt-pourable explosive composition of claim 15, wherein the melt-pourable explosive composition exhibits a card gap value of less than 121.
- 37. (Previously presented) The melt-pourable explosive composition of claim 15, wherein the melt-pourable explosive composition exhibits a card gap value of less than 101.

- 38. (Previously presented) The melt-pourable explosive composition of claim 15, wherein the melt-pourable explosive composition exhibits a dent depth in a range of 0.754 cm to 0.922 cm.
- 39. (Previously presented) The melt-pourable explosive composition of claim 15, wherein the melt-pourable explosive composition has a total energy of detonation of 7.1 kJ/cc to 8.7 kJ/cc.
- 40. (Currently amended) A melt-pourable explosive composition comprising:

 30 weight percent to 70 weight percent of <u>at least</u> one <u>or more organic-binders binder selected</u> from the group consisting of mononitro aromatics and dinitro aromatics, the <u>at least one or more organic-binders binder collectively</u> exhibiting a total energy detonation lower than trinitrotoluene and collectively having a total melting point in a range of 80°C to 115°C; and
- 30 weight percent to 70 weight percent of <u>at least</u> one <u>or more</u> inorganic <u>oxidizers</u>, <u>oxidizer</u>, wherein the melt-pourable explosive composition is melt-pourable at a temperature in a range of 80°C to 115°C, undergoes an onset of thermal decomposition at a temperature that is at least 55.5°C higher than the temperature at which the melt-pourable explosive composition becomes pourable and exhibits a card gap value of less than 121, a dent depth in a range of 0.754 cm to 0.922 cm, and a total energy of detonation of 7.1 kJ/cc to 8.7 kJ/cc, and
- wherein at least 95 weight percent of the melt-pourable explosive composition comprises a combination of the <u>at least</u> one or more organic binders binder and the <u>at least</u> one or more inorganic oxidizers. oxidizer.
- 41. (Previously presented) The melt-pourable explosive composition of claim 40, wherein the card gap value exhibited by the melt-pourable explosive composition is less than 101.

- 42. (Previously presented) The melt-pourable explosive composition of claim 40, wherein the card gap value exhibited by the melt-pourable explosive composition is less than 81.
- 43. (Currently amended) The melt-pourable explosive composition of claim 1, wherein at least 99 weight percent of the melt-pourable explosive composition comprises a combination of the <u>at least</u> one <u>or more</u>-organic-binders and the <u>at least</u> one <u>or more</u> inorganic-oxidizers, oxidizer.
- 44. (Currently amended) The melt-pourable explosive composition of claim 41, wherein at least 99 weight percent of the melt-pourable explosive composition comprises a combination of the <u>at least</u> one or more organic <u>binders</u> and the <u>at least</u> one or more inorganic <u>oxidizers</u>. <u>oxidizers</u>.